



Quality and custom applications

Company profile

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Our force is result

Maximum service for the customer, flexibility, close competence and a proper machine fleet.

These factors have been contributing to creating Meccanica Besnatese's solid reality within the span of over forty years.

The company is currently occupying a surface of 5,000 square metres, employing 23 units and using a machine fleet composed by about twenty modern and efficient installations.

The company is specialised in manufacturing on third parties' account and producing linear tables for industrial handling.

In particular, Meccanica Besnatese acts on small lots and single pieces up to sampling and prototyping. It offers its own customers complete assistance, from engineering to the final release of specific pass-certificates.

Service

Flexibility

Competence

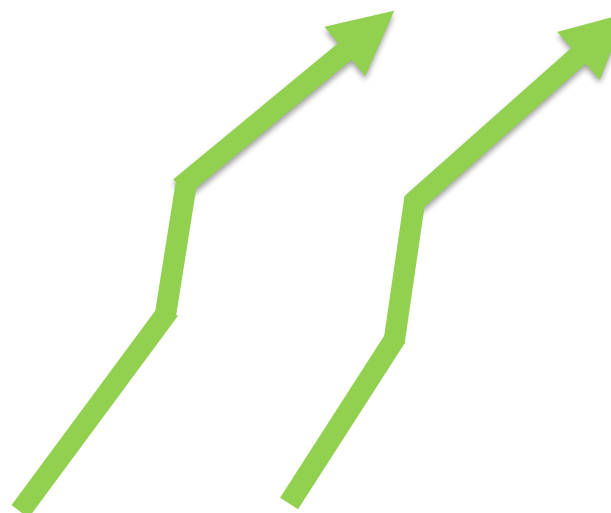
Invest to grow

Meccanica Besnatese has always been focused on improvement. The focus lies in the strengthening and valorisation of staff; the human resource is the most precious asset for the company; employees must be able to work at their best.

For this reason, the investment and renewal of working environments and hardware - software infrastructures are continuously considered.

Meccanica Besnatese is committed to respecting the environment, a relevant issue today, with small daily actions, recently with the purchase of a 200 kW photovoltaic system, to fill the daily energy needs.

Improve



Manufacturing on third parties' account

Meccanica Besnatese is in the service of companies for manufacturing or assembling pieces according to the customer's specific requirements.

In particular, the company accomplishes the following activities:

Machining

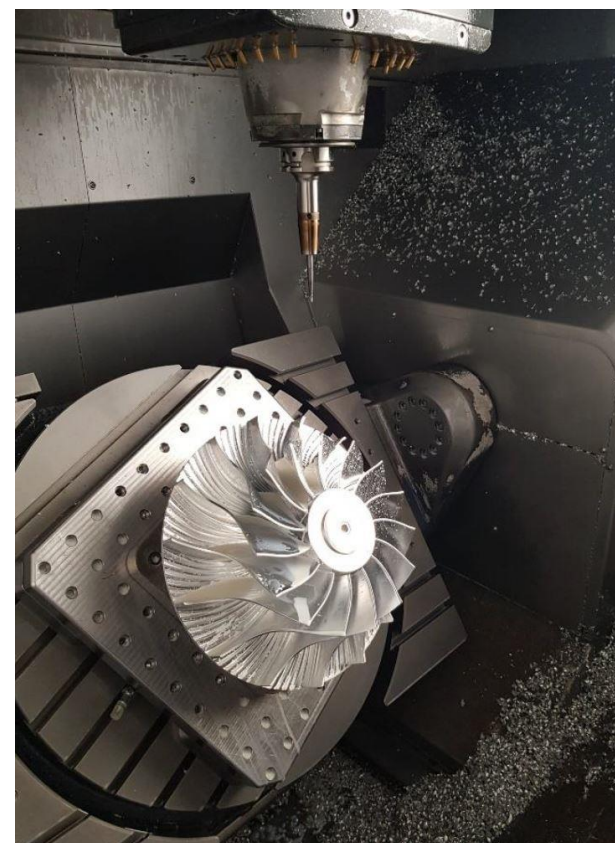
Dimensional
check

Assemblies of
Mechanical
units

Prototyping

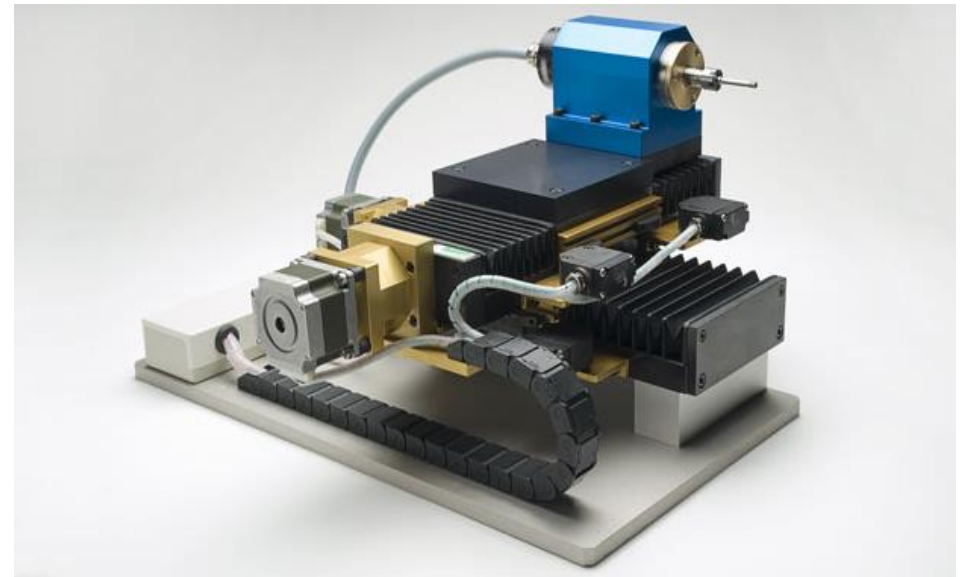
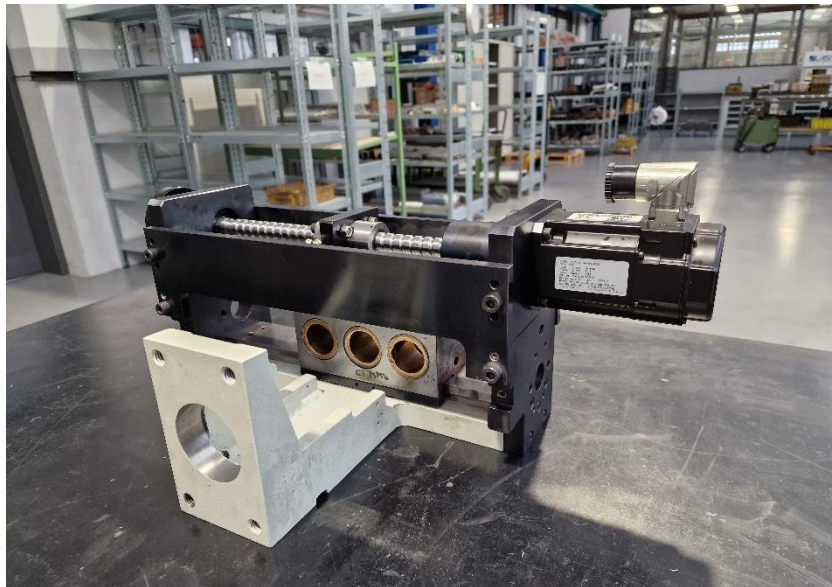
Machining

Machining for chip removal according to the drawings supplied by the customer or the projects defined by Meccanica Besnatese, starting from the customer's specific needs.



Assemblies of mechanical units

Assemblies starting from finished components supplied by the customer and from parts forged by Meccanica Besnatese, according to the customer's deliveries. Also in this case, the company's contribution may go beyond the mere observance of external directives. Where required, the company may also take part in engineering and concretely fulfil the customer's requirements from the preliminary drawing to the assembly of a whole mechanical unit.



Dimensional check

Dimensional check on components manufactured by the company and on pieces supplied by the customer.
Certificates of conformity are released after verification.

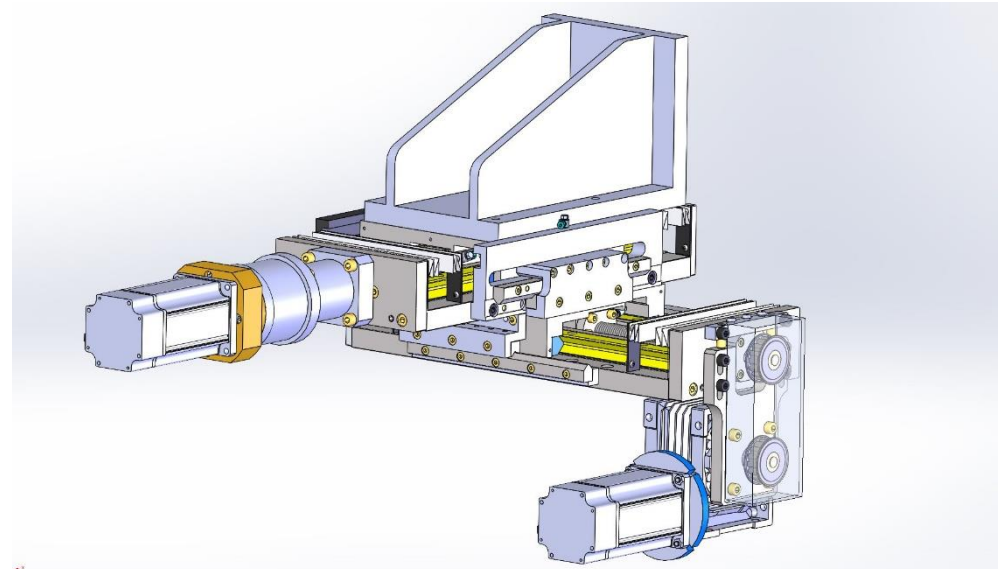
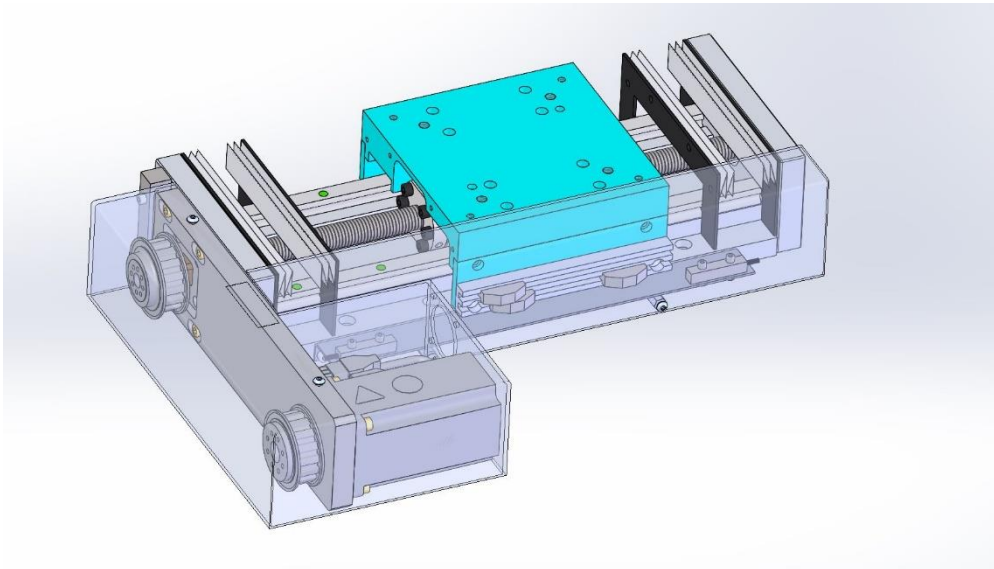


Prototyping

Machining single pieces and small lots. Flexibility, competence and the machine fleet enable the company to fulfil special needs not only by working on small-size orders, but also by accomplishing special pieces according to the customer's requirements.

Every single prototype arises out of the confrontation and cooperation with the customer, the engineers' intelligence and professionalism and special attention paid to manufacture.

Every single finished piece acquires a unique value Meccanica Besnatese can guarantee by issuing certificates of dimensional inspection and functional fitness.



Fields of applications

Various kinds of industries apply to Meccanica Besnatese's work cycles.
In particular, the scope of application of the company's activity is described here
below:

Hydraulic

Hydraulic cylinders, actuators

Energy

Loose or assembled pieces for
the oil sector

Tool machines

Working machine parts,
assembled sub-units

Automation

Linear tables, grip hands,
industrial robotic parts

Automotive

Control templates, diesinking,
equipment

Medical

Machinery and robotics
dedicated to special handling

Food

Parts, assembled units and spare
parts

Machine fleet



Technical references

Workable dimensions

In turning mode, up to a diameter 1100 x 500 mm. Up to a diameter 700 x 3000 mm In milling mode. Up to a cube 3000 x 6000 x 1800 mm (machining from 3 to 5 axes) in grinding mode flat up to 600 x 1600 mm. Round up to a diameter 500 x 1000 mm

Controllable dimensions

Certified dea measuring machine in a constant temperature controlled environment. You can check surfaces point by point and scan in continuous mode.

Maximum dimensions are:

X 1200 y 2200 z 1000

Weights

Weight that can be handled on machine tools up to 10,000 Kg.

Weight that can be handled in the assembly area up to 20,000 Kg.

Milling

N.C. MOBILE PORTAL MILLING MACHINE

"CASER" Type: Varigantry 3

Travel: mm 6000 x 3000

C.N.C. "CASTEL" TYPE BORING MACHINE

Type: Red - Controlled rotary table mm 1600x 1800 Stroke: mm 6000 x 2000 x 2000

"C.B. FERRARI" N.C. MILLING MACHINE

Type: A186 6 axes

"NOMO" N.C. FIXED BENCH MILLING MACHINE SELCA 1200 control Type: FBF 2500

Travel: mm 2500 x 700 x 1100

"C.B. FERRARI" N.C. MILLING MACHINE Type:

D432 E560 Travel: mm 3000 x 1400 x 800 ISO

"C.B. FERRARI" N.C. MILLING MACHINE Type:

S82 E. 132 V Travel: mm 2500 x 800 x 1000

"C.B. FERRARI" N.C. MILLING MACHINE Type:

S82 E. 520 Travel: mm 2500 x 800 x 1000

"C.B. FERRARI" N.C. MILLING MACHINE Type:

S56 E. 160 Travel: mm 1600 x 600 x 550

"C.B. FERRARI" N.C. MILLING MACHINE Type:

S52 E. 524 Travel: mm 1400 x 500 x 450

"C.B. FERRARI" N.C. MILLING MACHINE

Type: A17 E. 160 Travel: mm 1050 x 520 x 420

"RIGIVA" UNIVERSAL MILLING MACHINE

Type: 2 - Completely displayed

"C.B. FERRARI" N.C. POINT-TO-POINT MILLING MACHINE

Type : P5-S Travel : mm 1100

x 350 x 300

"C.B. FERRARI" N.C. MILLING MACHINE

Type: S630 5 axes

Turning

"OVERMACH" N:C: LATHE

- Travel: mm 265 x 1625 - Ø 630

- 3 axes

"TOVAGLIERE" CENTER LATHE

Center height: mm 220 x 1500

"TOVAGLIERE" CENTER LATHE

Center height: mm 250 x 2000

"TACCHI" HALF-FRONT CENTER LATHE

open sliding bed diam. mm 330 x 2000

NUMERIC CONTROL LATHE WITH SELF-LEARNING TYPE: T550L SNC NEWS

- Center height on the bed: mm 550

- Distance between the centers: mm 3000

- Max. rotary diameter on the bed: mm 1100

- Maximum rotary diameter on the slide: mm 750 Max.

- Weight admitted between the centers: Kg. 4000

- Spindle Power: KW 30

Grinding

"FAVRETTO" TANGENTIAL GRINDING

Travel: mm 1600 x 600 x 1000

GRINDING FOR "RASTELLI" RODS

Type: R. 5/A

- Complete with

"MARPOSS" electronic measurer

GRINDING FOR "RASTELLI" RODS

Type: R. 7A/1000

- Complete with "MARPOSS"

electronic measurer

Various equipment

"ROSA" 2-head online BENCH DRILLING MACHINE drilling from mm 0 to mm 10

PILLAR DRILL Hole mm 10

"LTF" RADIAL DRILLING MACHINE Hole mm 50

"CASER" RADIAL DRILLING MACHINE Hole mm 25

"RAIM 360 ATS.5" BELT SAW Automatic feed and cut

"SHARK 260" BELT SAW Manual feed and cut

"PEDRAZZOLI" DISK CROPPER Manual feed and cut

"ISEA" ELECTRODE WELDING

"MILLER" WIRE WELDING "HYSTER"

LIFT TRUCK Type: 17,5 q

"LASIT" LASER MARKER 3 asex

Control

SCAD-CAM ENGINEERING STATION

supports: CAM "DAM" and "TS26" with Elexa/Selca/ E.C.S./Fanuc, , Auton 2.5, ESPRIT, 2-ESPRIT, Heidenhain outputs

CAD-CAM Three-dimension ENGINEERING

STATION with supports: Rhinoceros 4, Auton 12, SolidWorks 2022

THREE-DIMENSION MEASURING MACHINE:

DEA series GLOBAL PERFORMANCE 12.22.10

(X, Y, Z), work range 1200 x 2200 x 1000.

Equipped with: tracer points PH10MQ-TP200 and

PH10MQSP25, PC-DMIS CAD++ DCC Ver.3.7 MR3

"ELBO CONTROLLI" TOOL PRESET Type: E 780

"ELBO CONTROLLI" TOOL PRESET Type: AR 2000

Engineering and manufacturing linear tables

Meccanica Besnatese is producing linear tables for handling objects, loads as well as for developing automatism in general. Linear tables are modular tables supporting movements according to the directions of cartesian coordinates and with multi-axis orientation. Movement occurs on roller guides and ball screws.

The linear tables manufactured by Meccanica Besnatese reproduce the dimensions defined by international standards or they are manufactured according to the customer's needs.

Automatism

Modular

Multi-axis

Standard

Custom

Movement

Needs

Develop

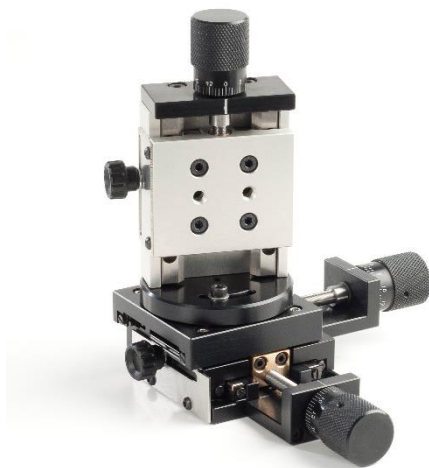
International

Standard tables

The tables manufactured by Meccanica Besnatese range from small- to large-size systems, in compliance with standard instructions. Just as for manufacturing on third parties' account, the company is ready to accomplish mass-produced work orders in a limited number up to single units.

The components in use are purchased from the most qualified suppliers to offer customers a top-quality finished product for easy replacement.

The tables included in the catalogue are generally used for positioning and handling light objects and if no high level of accuracy and rigidity is required, they can offer an excellent quality - price ratio.



A flexible standard

Even if complying with standard directives, the tables included in the catalogue can provide for a certain customisation degree. The various models of the same series can be composed according to well-defined coordinate systems.

Moreover, you can freely define the choice of accessories, such as: limit stop, lubrication systems, joints, motor interfaces, supports and structures for installation.



Technical references standard tables

Manual linear tables (model **TRP**)

Ideal solution for moving objects.

In 4 sizes, with strokes ranging from 30 to 240 mm.

Application sectors: Industrial automation, Pharmaceutical, various.

Linear tables with crossed roller guides (model **TV**)

Steel structure, compact, maximum rigidity and precision, strokes from 25 to 200 mm.

Sectors of use: Machine tools and precision equipment for grinding, profiling grinding, milling, drilling and tapping.

Measurement and testing systems, devices for scientific research, optical and medical instrumentation.

Precision linear tables (models **TV3P-TV4P-TV5-TV6**)

Custom to customer specifications, steel structure suitable for exceptional loads,

dust resistance, centralized lubrication system.

Sectors of use: Machine tools, heavy duty.

Direct Drive linear tables (model **DDL**)

Use with linear motor, high speeds, high positioning precision, no backlash, strokes up to 760 mm.



Technical references standard tables

Automation linear tables (model **BB**)

Medium precision, strokes from 100 to 500 mm, aluminium structure. Sectors of use: Machines and equipment for assembly, manipulation and robotics, light mechanical processing, industrial operating machines in general: food sector, plastic processing, rubber, composite materials, resins, etc.

Manual linear tables (model **TPGA**)

Safe positioning thanks to high stability. Built in two sizes, with strokes from 25 to 75 mm.

Sectors of use: Generic.

Manual linear tables (model **UMB**)

Better reliability with reduced dimensions, maximum rigidity and smoothness, useful stroke from 60 to 100mm.

Sectors of use: Generic.



Rotary tables

The rotary tables Series RT by Meccanica Besnatese are the natural completion of the Linear Tables Series BB, which they can be interfaced to as modules of different dimensions. The result is a simple assembly process for the realization of multi-axis systems.

They are produced in three different equivalent dimensions: RT 50, RT 180, RT 240.



Special tables

Just as for manufacturing on third parties' account, Meccanica Besnatese offers prototyping also in this field.

The linear tables by single or multi-axis movement are manufactured according to the customer's needs starting from the draft of a specific project, the choice of the most suitable materials up to real machining as well as final inspection and the company's certification attached thereto.

The product is customised according to specific technical requirements as a result of the cooperation and confrontation between the company and the customer.

Meccanica Besnatese's personnel are ready not only to deliver the finished piece, but also to set the table at works and to make any suggestion for improvement.

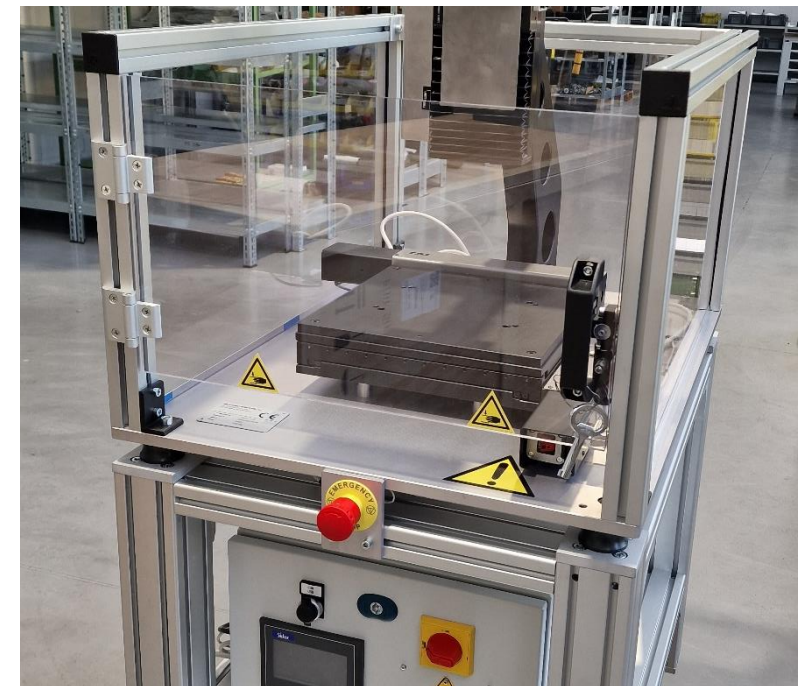
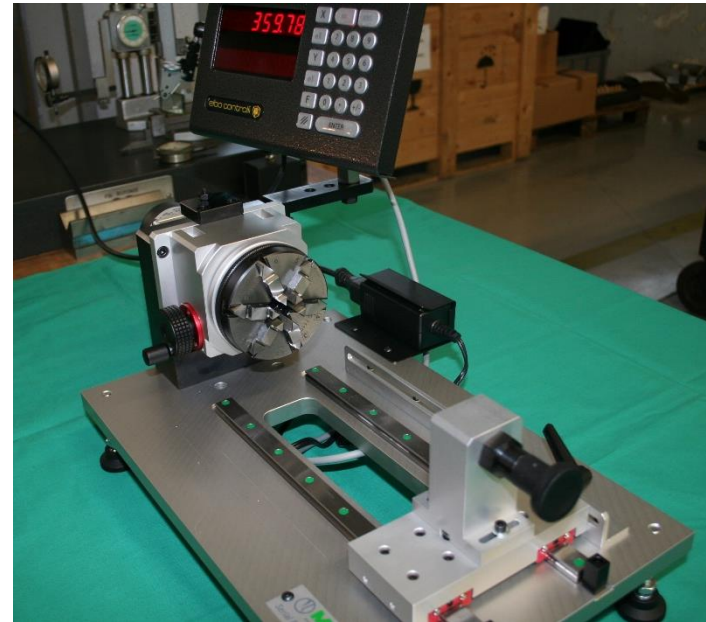
Being conceived for customisable work cycles, the fields of application of special tables are extremely various.

Tables are up to 3,000 x 6,000 mm in workable dimensions. Their workable weight is up to 10,000 Kg. and 20,000 Kg for assembled units.

Upon request, multi-axis systems can be assembled on aluminium or steel modular structures.



Special MB





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Certified according to
EN 9100:2018, AS9100D, JISQ 9100:2016
ISO 9001:2015